

Delaware's Transportation Management Program

Operations Incident and Event Management Homeland Security





DelDOT's Integrated Transportation Management System



DelTrac is the Delaware Department of Transportation's transportation management program.



- **Transportation Mgmt Center (TMC) – The Heart of DelTrac**
 - **Monitors and coordinates the management of the transportation system**
 - **Coordinates DelDOT's response to incidents and events**
 - **Houses system hardware, software, telecomm, and personnel**
 - **Operational 24 hours/day, 365 days/year**

TMC Addition



Statewide Emergency Operations Center



- **The TMC is part of the Statewide Emergency Operations Center**
- **The State EOC includes:**
 - **Delaware Emergency Management Agency**
 - **Delaware State Police**
 - **Delaware Department of Transportation**



Technology

Intelligent

Transportation

Systems



DelDOT's Integrated Transportation Management System



Control Systems

- Computerized Traffic Signal System
- Transit Schedule Adherence/AVL System
- Gate Control Monitoring
- Variable Speed Limit Sign System
- Incident/Event Management System 
- Transit Priority Treatment System
- Electronic Lane Use Sign System



Monitoring Systems

- Video Monitoring System
- Electronic Detection System
- Aerial Monitoring
- Motorist Assistance Patrol
- #77 Cellular Reporting Service
- Weather/Flood/Road Surface Monitoring System
- Electronic Toll Collection – EZ-Pass
- Electronic Payment System
- Interface to Police/Fire Computer Aided Dispatch
- Electronic Red Light Enforcement
- Draw Bridge Monitoring

FUTURE



Information Systems

- Travelers Advisory Radio System
- Dynamic Message Sign System
- Real-time Web Site
- Kiosks
- Telephone Information System
- Automated Commercial Vehicle Operations
- Transportation Channel on Cable TV



DelDOT's Integrated Transportation Management System



Telecommunication Systems

- **Fiber Optics**
- **Wireless**
- **800 MHz NextGen Project**
- **CDMA – Signals**
- **220 MHz**
- **New Telecom Plan**



- TMC Section is responsible for:
 - Daily Transportation Management Operations
 - Incident and Event Planning and Management
 - Transportation Homeland Security Planning and Management



The Delaware Department of Transportation's Transportation Management Center's (TMC) Role in Operations, Incident and Event Management and Homeland Security



Transportation Incident and Event Management

- The TMC coordinates the planning and management of DelDOT's response to daily incidents and events to include:
 - Accidents
 - Disabled vehicles
 - Debris in roadway
 - Construction
 - Planned
 - Emergency
 - Traffic signal complaints
 - Missing or damaged signs
 - Traffic operation complaints
 - Detours
 - Etc.



Transportation Incident and Event Management

- The TMC coordinates the planning and management of major events to include:
 - NASCAR races at Dover International Speedway
 - State Fair
 - other



Transportation Incident and Event Management

- The TMC coordinates the planning and management of DelDOT's response to natural or other disasters to include:
 - Snow and Ice Storms
 - Hurricanes
 - Nor'easters
 - Hazmat Incidents
 - Radiological Incidents
 - Weapons of Mass Destruction (WMD) Incidents
 - Etc.



Transportation Incident and Event Management

- All 911 Centers' requests for DelDOT response or service come through the TMC.
- The TMC is being integrated into the new Delaware State Police computer aided dispatch system
- The TMC coordinates homeland security information with the Delaware State Police Intelligence Section through the Delaware Intelligence Analysis Center (DIAC) to include requests for transportation facilities and infrastructure.
- #77 (disabled vehicle) calls are answered at the TMC.



Transportation Incident and Event Management

- Requests for DelDOT response and service from the State Emergency Operation Center (EOC), county and municipal EOC's are managed by the TMC.



Transportation Incident and Event Management

- The TMC coordinates DelDOT's response to Federal Disaster Declarations.
- The TMC coordinates providing DelDOT personnel for disaster assessment teams.



Transportation Incident and Event Management

- **The TMC leads DelDOT's planning efforts associated with:**
 - **Delaware Strategy for Homeland Security**
 - **Delaware Emergency Operations Plan (DEOP)**
 - **Delaware Transportation Security Plan**
 - **Delaware Transportation Incident and Event Management Plan**
 - **Represents DelDOT in other Homeland Security and Public Safety planning**
 - **All Hazards Evacuation Plans**
 - **Incident Response Plans**
 - **Other**



DelDOT's Integrated Transportation Management System



Delaware Emergency Operations Plan

Catastrophic Event Response Plan

Delaware Emergency Operation Plan

- Includes Basic Plan, 17 Emergency Support Functions (ESF), & Hazard Specific Annexes**
- Provides Mission Assignments & Tasking**

DeIDOT's Role

- Primary Agency for ESF 1- Transportation and ESF 3 Public Works and Engineering**
- Support Agency for 15 ESF - Communication, Mass Care, Food, Fire Fighting, Search & Rescue, Resource Support, Information & Planning, Animal Care, etc.**



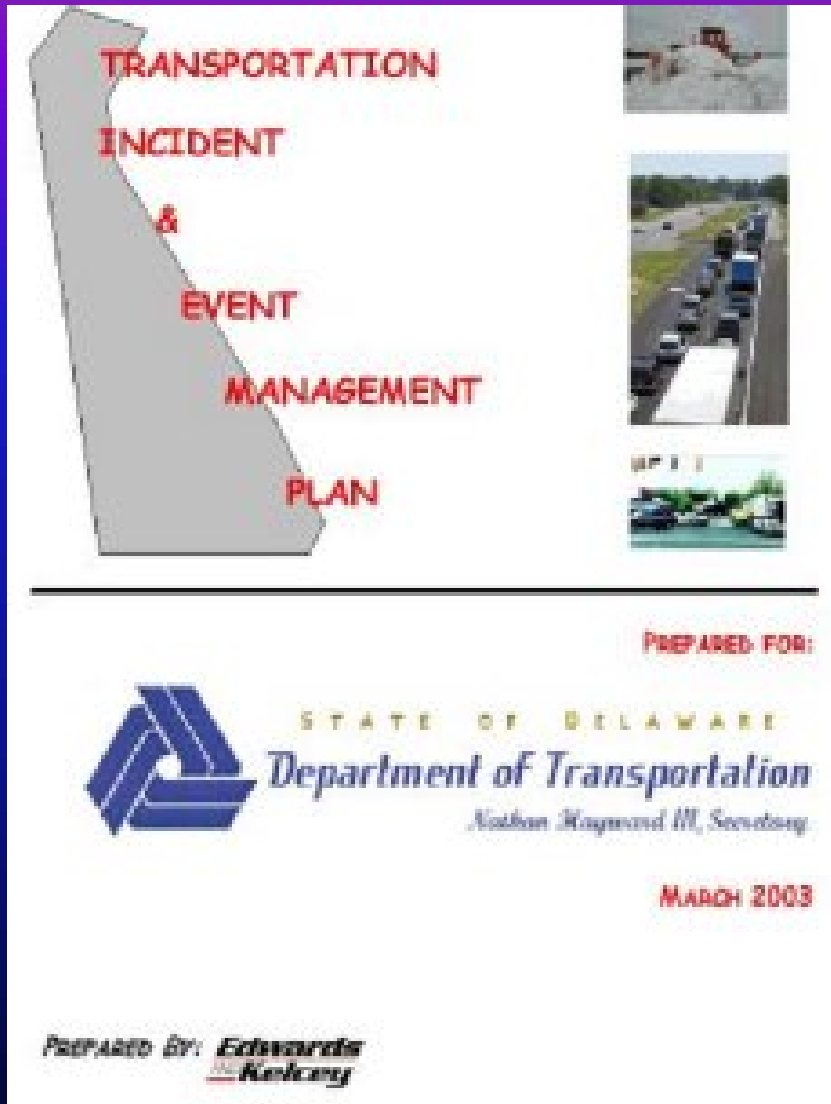
Delaware Transportation Security Plan

- **Established a Security Working Group**
 - Reviewed list of critical assets and develop group prioritization
 - Reviewed identified vulnerability and risk, discuss possible cause/conditions
 - Developed & reviewed countermeasures including capital expenditure and policy change recommendation
 - Incorporate *National Strategy for Homeland Security -July 2002 (ie First Responders)*



Transportation Incident and Event Management Plan

- Developed with input from all DelDOT divisions and other agencies to include police, fire, emergency management and others at the state and local level.

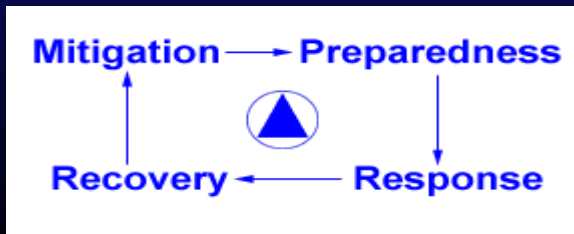


Transportation Incident and Event Management Plan

Level of Response to the Level of Incident

Purpose -

- To define the communication, response, resource and responsibility procedures and guidelines of the Transportation Management Teams (TMT) for response to any event or incident that impacts the transportation system.
- To establish the TMT concept that will maximize the safe movement of persons and vehicles from the affected area(s), and give emergency personnel access to the affected area(s).
- To establish the TMT responsibility for the prompt, safe, and orderly re-entry of evacuees into the evacuated area once the incident or event no longer exists.



Transportation Incident Management Teams

- **Transportation Management Teams (TMT)** - TMTs are composed of state and local police, fire, rescue, emergency management, environmental protection, public works, transportation agencies and others. The TMT will jointly make decisions on how an incident or an event that impacts the transportation system will be handled.
- **Meet Monthly** www.deldot.gov/information/projects/tmt/
- **Six TMTs:**
 - Northern New Castle County
 - Southern New Castle County
 - Kent County
 - Eastern Sussex County
 - Central Sussex County
 - Western Sussex County
- **Communication Working Group**
- **DAFB Working Group**



Plan, Train and Respond Together

Transportation Management Teams (TMT)

www.deldot.gov/information/projects/tmt/

- Jointly make decisions on how an incident or an event that impacts the transportation system will be handled.
- Work within the National Incident Management System (NIMS) framework and Unified Command Structure

TMT Keys to Success

- Establish communication procedures.
- Define roles and responsibilities.
- Establish policies and procedures.
- Identify the available resources for different areas.
 - *People* *Vehicles*
 - *Equipment* *Materials*
- Establish planning and training exercises.



Transportation Management Teams (TMT)

www.deldot.gov/information/projects/tmt/

Primary Agencies

Delaware Emergency Management Agency
Delaware State Police
Delaware Department of Transportation
Department of Natural Resources & Environmental Control
Delaware State Fire School
Delaware River & Bay Authority
County/Local Emergency Management Agencies
County/Local Law Enforcement
County/Local Fire Service
County/Local Public Works/Transportation
Civil Air Patrol

Support Agencies

Department of Administrative Services
Delaware Health & Social Services
Delaware National Guard
State Climatology Office
Delaware Geological Survey
Department of Education
Delaware Solid Waste Authority
Delaware Technology & Information
Conectiv
Delaware Electric Cooperative
Radio Amateur Civil Emergency Services
Neighboring State and City Emer. Man. Agencies

Federal Counterparts

US Department of Transportation
 Federal Highway Administration
 Federal Aviation Administration
 Federal Transit Administration
Federal Emergency Management Administration
US Department of Defense
 US Army Corps of Engineers
US Coast Guard

Regional Support

I-95 Corridor Coalition
Delmarva Emergency Task Force



Evacuation and Response Planning

National Incident Management System (NIMS)



DE Emergency Operations Plan (DEOP)



Transportation Incident and Event Management Plan
(TIEMP)



Evacuation Annexes
Response Annexes



All Hazards Evacuation and Response Plans Status

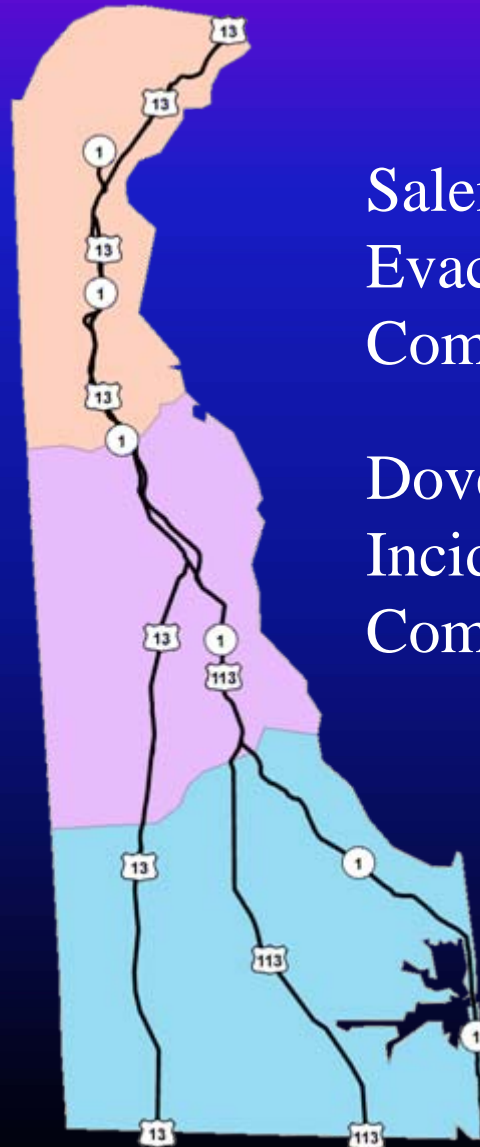
New Castle County
Complete

Kent County
Complete

Sussex County
Complete

Salem Nuclear Plant
Evacuation Plan – Update
Complete

Dover Air Force Base
Incident Response Plan
Complete



All Hazards Evacuation and Response Plans Status

In Progress:

- Major Transportation System Detour Plans
- Dover International Speedway Evacuation Plan
- Debris Management
- Special Needs (Non-Typical Needs)
 - Medical
 - No Private Transportation
 - Pets
- Re-Entry/Recovery
- Aeronautics – Delaware Airports Security Plans
- Cyber Security

www.deldot.gov/information/projects/tmt/



All Hazards Evacuation and Response Plans Status

Plan development 2008/2009:

- Transit
- Rail
- Marine (Ports)



www.deldot.gov/information/projects/tmt/



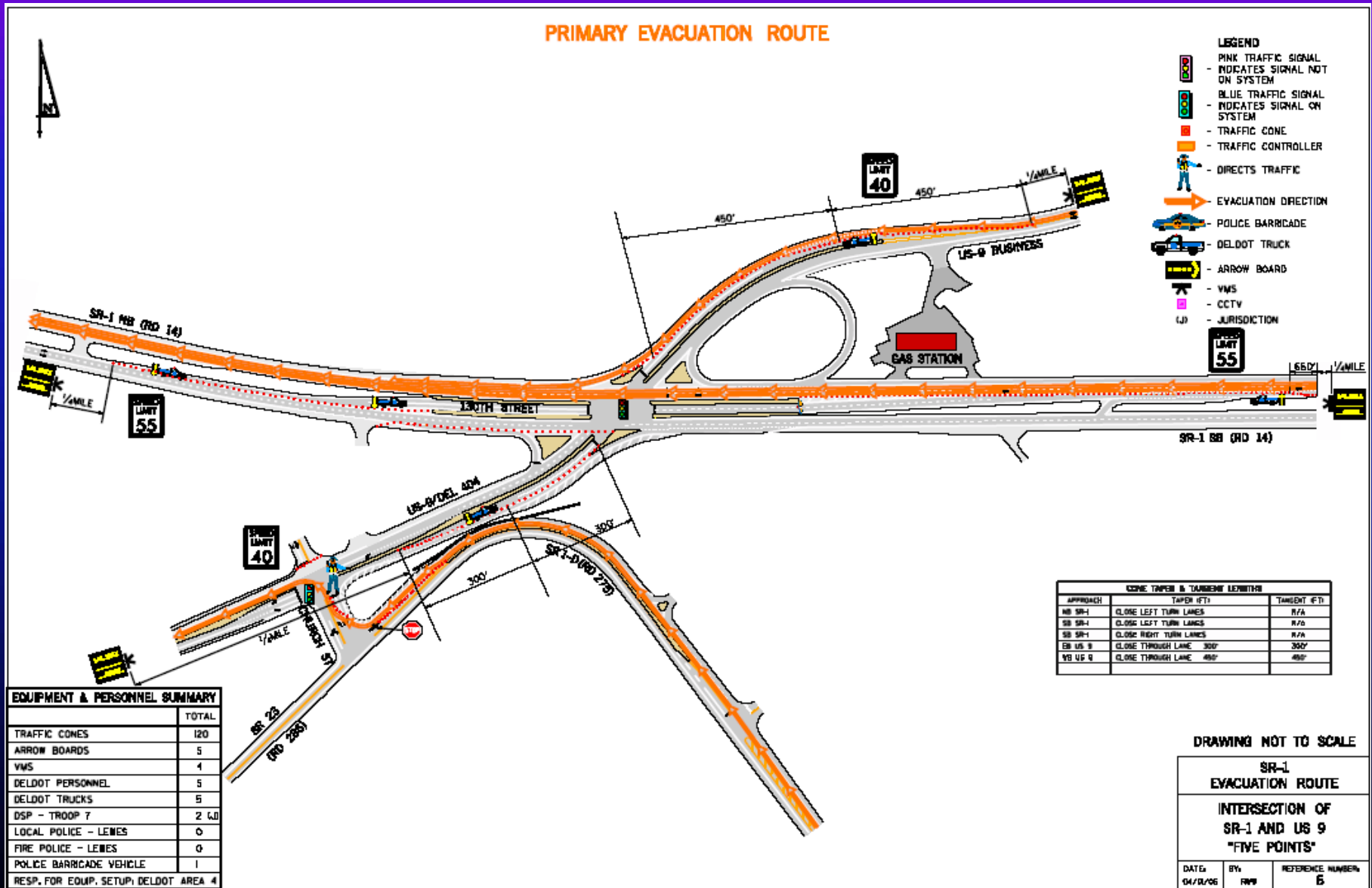
EVACUATION REGION OVERALL MAP

LEGEND

- 1 - SR-1 AND DEL 54
- 2 - SR-1 AND DEL 26
- 3 - SR-1 AND ROAD 360
- 4 - SR-1 AND DEL 24
- 5 - DEL 24 AND ROAD 275
- 6 - SR-1 AND US 9 "TIVE POINTS"
- 7 - SR-1 AND DEL 26
- 8 - SR-1 AND DEL 5
- 9 - SR-1 AND DEL 30
- 10 - DEL 54 AND DUKES AVE
- 11 - LIGHTHOUSE RD (DEL 20) AND 20th CHURCH RD (DEL 20)
- 12 - DEL 20 AND DEL 26
- 13 - DEL 26 AND US 113
- 14 - DEL 5 AND DEL 24
- 15 - DEL 24/5 AND DEL 5/23
- 16 - DEL 5 AND US 9
- 17 - DEL 30 AND US 9
- 18 - DEL 16 AND DEL 5
- 19 - DEL 30 AND DEL 16
- 20 - US 113 AND DEL 54
- 21 - THREASGROVE RD/ IRON BRANCH RD
- 22 - US 113 AND DEL 24 AND DEL 30
- 23 - US 113 AND DEL 20
- 24 - US 113 AND US 9
- 25 - MARKET STREET (US 9) AND N BEDFORD STREET
- 26 - US 113 AND BRIDGEVILLE RD/ SEASHORE HIGHWAY
- 27 - US 113 AND REDDEN RD (RD 40)
- 28 - US 113 AND DEL 26
- 29 - US 13 AND DEL 54
- 30 - US 13 AND DEL 30
- 31 - DEL 26 AND DEL 30 AND DEL 30 AND DEL 24
- 32 - US 13 AND DEL 24
- 33 - US 13 AND US 9
- 34 - DEL 9 AND DEL 20
- 35 - US 13 AND DEL 20
- 36 - US 13 AND DEL 404/26
- 37 - US 13 AND REDDEN RD (RD 40)
- 38 - US 13 AND NEWTON RD W (DEL 404)
- 39 - NEWTON RD W (DEL 404) AND SEASHORE HIGHWAY
- 40 - US 13 AND DEL 16

PRIMARY EVACUATION ROUTES **SECONDARY EVACUATION ROUTES** **EVACUATION ROUTES**

Example Intersection Diagram



Bay Bridge Closure





Plan Coordination

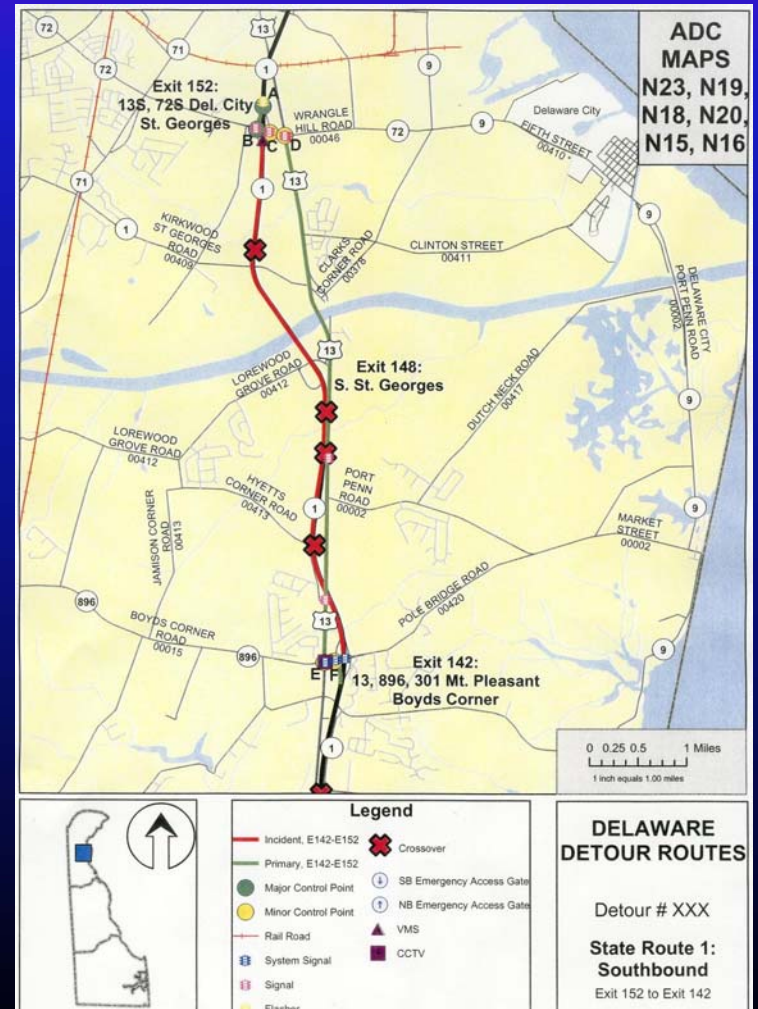
- The development of Delaware's evacuation plans are being coordinated with:
- Delmarva Emergency Task Force (DETF)
- Maryland Eastern Shore Evacuation Plan prepared by the Maryland State Highway Administration (MSHA)
- Army Corps of Engineers
- Pennsylvania
- New Jersey
- City of Wilmington and other local plans

Traffic Control Plans

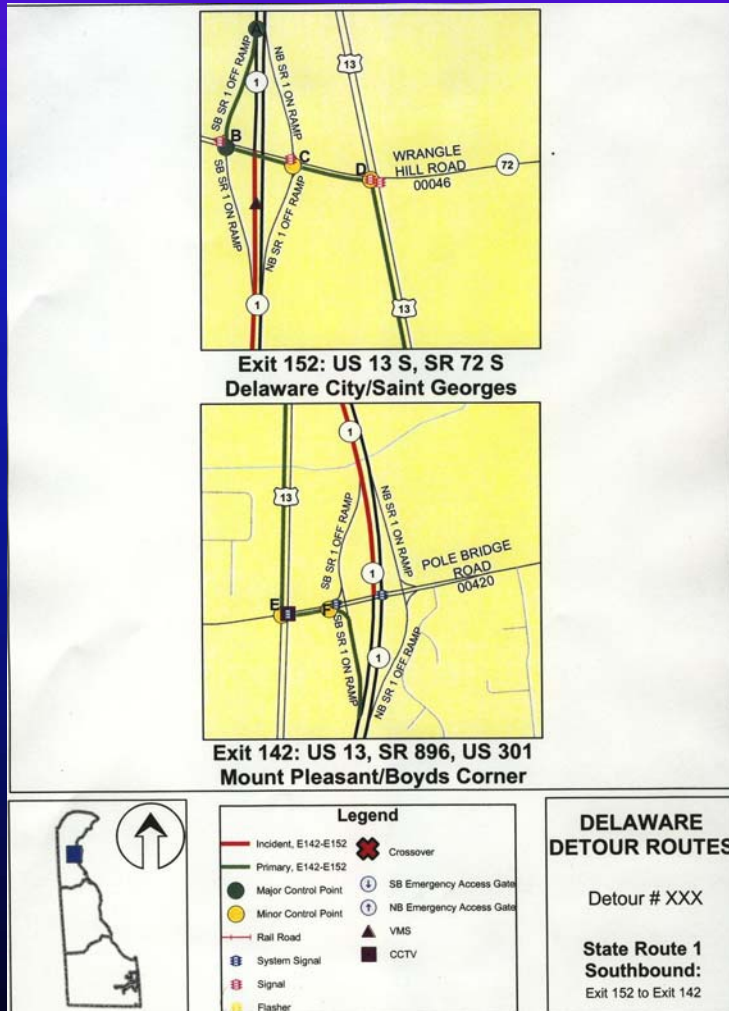
Each TMT is developing Traffic Control Plans for incidents that close sections of the state's major road network.

The TMTs are developing detailed traffic control plans to be used in conjunction with evacuation and response plans.

www.deldot.gov/information/projects/tmt/



Traffic Control Plans



Evacuation and detour plans are available at [www.deldot.gov](http://deldot.gov)

The screenshot shows a Mozilla Firefox browser window displaying the Delaware Department of Transportation website. The address bar shows the URL http://deldot.gov/information/projects/tmt/proj_docs.shtml. The website header includes the Delaware State logo and navigation links. The main content area is titled "PROJECTS - Transportation Management Team" and contains a section for "Project Documents" with a list of PDF files for download. A sidebar on the left lists various services and information, and a sidebar on the right provides "Project Information" and "Public Feedback" links.

Delaware Department of Transportation - Projects - Mozilla Firefox

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http://deldot.gov/information/projects/tmt/proj_docs.shtml

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It's good being first.
THE FIRST STATE

State of Delaware
The Official Website for the First State

Visit the Governor | General Assembly | Courts | Other Elected Officials | Federal, State & Local Sites

State Directory | Help | Search This Site Your Search...

Citizen Services | Business Services | Tourism Info.

Delaware Department of Transportation

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FAQs
Employment
Public Workshops
Related Links
DMV
DART
EZPass
Contact Information
Office Locations
Agency Site Map

SERVICES
Online Services

INFORMATION
Live Traffic
Interactive Traffic Maps
Biking in Delaware
Community Programs

PROJECTS - Transportation Management Team

Project Documents

In order to view some of the file(s) on this site that are saved in Portable Document Format (PDF), you will need to download the free Adobe Acrobat Reader from [Adobe Systems](#). Visitors with visual impairments or limitations can also access a [free suite of tools from Adobe Systems](#) to assist in viewing documents in PDF format.

- Communications Working Group Tabletop Exercise After Actions Report [PDF](#)
- I-95 Corridor Coalition Quick Clearance and 'Move It' Best Practices Executive Summary [PDF](#)
- DE Transportation Incident and Event Management Plan [PDF](#)
- TMT Presentation at the ITE (Institute of Transportation Engineers) Annual Meeting - May 2005 [PDF](#)
- Reference Location Signs Report [PDF](#)

Annexes:

- **New Castle County All Hazards Evacuation Annex - 2007**
 - New Castle County All Hazards Evacuation Annex - 2007 (13.7 MB) [PDF](#)
 - Appendix A (13.7 MB) [PDF](#)
 - Delmarva Peninsula Evacuation Map (1.2 MB) [PDF](#)
 - Evacuation Routes for a Hurricane affecting New Castle County (1.6 MB) [PDF](#)
 - Evacuation Routes for a Hurricane affecting the Southern Peninsula (1.6 MB) [PDF](#)

DELAWARE STATEWIDE TMT
TRANSPORTATION MANAGEMENT TEAM

Project Information

- Project Home Page
- Project Overview
- Project Documents
- Evacuation Plans
- Meetings and Public Workshops
- Detour Routes for Incident Management

Public Feedback
Contact: Public Relations

Done

start VZAccess Manager Delaware Departmen... Delaware Departmen...

4:38 PM

http://deldot.gov/information/projects/tmt/proj_docs.shtml



Delaware Department of Safety and Homeland Security

- Delaware Homeland Security Strategy
 - Delaware Homeland Security Council
 - Delaware Emergency Operations Plan (DEOP)
 - Emergency Support Functions
 - State Response Agencies
 - Homeland Security Terrorist Preparedness Working Group
 - US Department of Homeland Security Grant Program



Current Training Initiatives

- **Developing training for DelDOT personnel**
 - TMC/Area Yards Coordination and Communication
 - **1st responder**
 - **Incident Management**
 - **HazMat**
 - **Safety**
 - **Office of Domestic Preparedness (ODP)**
- **Training and Exercising with DEMA & other State/Federal Agencies**



Thank You

Gene Donaldson

302-659-4601

gene.donaldson@state.de.us

